Course description

Department/Unit /	KMM / PDP			**Academic Year**	2023/2024	
Title	Thesis Related Project			**Type of completion**	Pre-Exam Credit	
Accredited/Credits	Yes, 8 Cred.			**Type of completion**		
Number of hours	Tutorial 8 [Hours/Week]					
Occ/max	Status A	Status B	Status C	**Course credit prior to**	NO	
Summer semester	18 / -	0 / -	1 / -	**Counted into average**	NO	
Winter semester	0 / -	0 / -	0 / -	**Min. (B+C) students**	10	
Timetable	Yes			**Repeated registration**	NO	
Language of instruction	Czech			**Semester taught**	Summer semester	
Optional course	Yes			**Internship duration**	0	
Evaluation scale	S|N					
No. of hours of on-premise						
Auto acc. of credit	Yes in the case of a previous evaluation 4 nebo nic.					
Periodicity	K					
Substituted course	KMM/ZP					
Preclusive courses	N/A					
Prerequisite courses	N/A					
Informally recommended courses	N/A					
Courses depending on this Course	KMM/ZSZT1, KMM/ZSZT2					

Course objectives:

In the thesis related projects students prove their ability to apply, independently and creatively, the knowledge gained in the course of their studies. Under the guidance of their tutors they work on the theoretical part, and subsequently also on the practical part of their theses. They analyse the state of the art in the given area, present possible solutions and evaluate them. The chosen solutions are then developed further and described in detail in their theses.

Requirements on student

Requirement for credit is:
1. Active participation on the consultation for elaboration of diploma thesis.
2. Demonstration of knowledge needed to elaboration of diploma thesis.
3. To present the supervisor with diploma thesis in the required standard.

Content

In order to successfully completed the study prior-diploma experience must be successfully completed.

Fields of study

COURSEWARE ZČU

Guarantors and lecturers

- **Guarantors:** Prof. Ing. Ludmila Kučerová, Ph.D. (100%)
- **Tutorial lecturer:** Prof. Ing. Ludmila Kučerová, Ph.D. (100%)

Literature

- **Basic:** Staněk, Jiří; Němejc, Jiří. *Metodika zpracování a úprava diplomových (bakalářských) prací*. Plzeň, 2OO5. ISBN 80-7043-363-9.
- **Recommended:** *Doporučená literatura k projektu k diplomové práci navazuje na doporučenou literaturu diplomové práce. Její rozsah je nutné dohodnout s vedoucím DP.*

Time requirements

All forms of study

Activities	Time requirements for activity [h]
Contact hours	104
Individual project (40)	40
Presentation preparation (report) (1-10)	15
Graduate study programme term essay (40-50)	50
Total:	**209**

assessment methods

Knowledge - knowledge achieved by taking this course are verified by the following means:

Individual presentation at a seminar

Skills - skills achieved by taking this course are verified by the following means:

Skills demonstration during practicum

Competences - competence achieved by taking this course are verified by the following means:

Defense of thesis

prerequisite

Knowledge - students are expected to possess the following knowledge before the course commences to finish it successfully:

Complete the final course project and thesis placement.
Give a description of and explain theoretical knowledge and practical skills acquired in the chosen field.
Describe the state of the art in the field
Characterize working hypotheses, methods and techniques required for solving the assigned problem.
Give a comprehensive description and higher-level explanation of alternative solutions.
Expand own knowledge through independent study of theoretical fundamentals of engineering.

Skills - students are expected to possess the following skills before the course commences to finish it successfully:

Use theoretical knowledge and practical skills in the field for solving assigned problems in diploma thesis.
Develop own solutions to the assigned problem.
Present own opinion of the alternative solutions and choose the optimal one (analyze the technical solution).
Gain further professional skills independently through hands-on experience and its evaluation.

Competences - students are expected to possess the following competences before the course commences to finish it successfully:

N/A

N/A

teaching methods

Knowledge - the following training methods are used to achieve the required knowledge:

Students' portfolio

One-to-One tutorial

Individual study

Skills - the following training methods are used to achieve the required skills:

Project-based instruction

Competences - the following training methods are used to achieve the required competences:

Individual study

learning outcomes

Knowledge - knowledge resulting from the course:

After completing this course, the student can give a theoretical substantiation of the proposed solutions, conduct experimental measurement, identify the core of the problem, conduct a technical and economic evaluation of the solution, use computer technology and special software, defend the thesis before the commission.
Describe and give a higher-level explanation of potential solutions to problems presented in the diploma thesis, present your opinion of the chosen solution..
Present professional knowledge in at least one foreign language.
Use computer technology and give a description of a special software.
Expand own knowledge through independent study of theoretical fundamentals of the field.

Skills - skills resulting from the course:

Use theoretical knowledge and practical skills in solving assigned problems in diploma thesis.
Use computer technology with special software for solving specific problems.
Explain and contrast the strengths and weaknesses of the chosen solution and defend the thesis before the commission.
Develop a technical and economic evaluation of a proposed solution.

Competences - competences resulting from the course:

N/A

Course is included in study programmes:

Study Programme	Type of	Form of	Branch	Stage	St. plan v.	Year	Block	Status	R.year	R.
Materials Science and Manufacturing Technology	Postgraduate Master	Full-time	Materials Science and Manufacturing Technology	1	2020	2023	Compulsory courses	A	2	LS
Materials Science and Manufacturing Technology	Postgraduate Master	Combined	Materials Science and Manufacturing Technology	1	2020	2023	Compulsory courses	A	2	LS